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FILE 'HCAPLUS' ENTERED AT 14:20:56 ON 20 AUG 2001 E SUGA MIKIKO/AU 25

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ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 2000:314426 HCAPLUS

132:321020 DOCUMENT NUMBER:

TITLE: Method for producing L-arginine

Suga, Mikiko; Kuwabara, Yoko; Hashiguchi, INVENTOR(S):

Kenichi; Ito, Hisao; Nakamatsu, Tsuyoshi; Kurahashi,

Osamu

Ajinomoto Co., Inc., Japan PATENT ASSIGNEE(S):

Eur. Pat. Appl., 20 pp. SOURCE:

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English INT. PATENT CLASSIF.:

MAIN: C12N001-20 C12P013-10 SECONDARY:

> ADDITIONAL: C12N001-20, C12R001-15 INDEX:

C12N015-52

CLASSIFICATION: 16-5 (Fermentation and Bioindustrial Chemistry)

Section cross-reference(s): 3, 10

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

KIND DATE PATENT NO. APPLICATION NO. DATE _____ A1 20000510 EP 1999-120934 19991102 EP 999267

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

IE, SI, LT, LV, FI, RO

JP 2000197490 A2 20000718 JP 1999-271204 19990924 CN 1999-125154 20000705 19991102 CN 1258736 Α JP 1998-312301 A 19981102 PRIORITY APPLN. INFO.: JP 1999-271204 A 19990924

ABSTRACT:

A method for improved prodn of L-arginine by genetic enhancement of arginine producing coryneform bacteria is disclosed. Specifically, the activity of intracellular argininosuccinate synthase is enhanced by increasing the copy no. of the argG gene (derived from a coryneform bacterium) which codes for argininosuccinate synthase. Thus, a Corynebacterium glutamicum strain so transformed demonstrated a four fold increase in arginine concns. over the parent wild type when both are cultured in the same fermn. medium. Alternatively, L-arginine prodn is enhanced by mutating the promoter sequence which controls expression of the argG gene. In this case, Corynebacterium glutamicum strains with mutated promoters demonstrated a 2-3 fold increase in arginine concns. over the parent wild type when both are cultured in a fermn. medium.

SUPPL. TERM: Corynebacterium arginine prodn argG copy number; mutated

promotor Coryneform arginine prodn

INDEX TERM: Gene, microbial

> ROLE: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BPR (Biological process); BIOL

(Biological study); OCCU (Occurrence); PROC (Process) (argG; enhanced L-arginine prodn. by genetically

engineered Coryneform strains)

Corynebacterium glutamicum INDEX TERM:

Corvneform bacteria

Fermentation

Genetic engineering

(enhanced L-arginine prodn. by genetically engineered

Corvneform strains)

Promoter (genetic element) INDEX TERM:

> ROLE: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BPR (Biological process); BIOL

```
(enhanced L-arginine prodn. by genetically engineered
                      Coryneform strains)
                   Plasmids
INDEX TERM:
                      (pargG; enhanced L-arginine prodn. by genetically
                      engineered Coryneform strains)
                   9023-58-9, Argininosuccinate synthase
INDEX TERM:
                   ROLE: BAC (Biological activity or effector, except adverse);
                   BOC (Biological occurrence); BPR (Biological process); BIOL
                   (Biological study); OCCU (Occurrence); PROC (Process)
                      (enhanced L-arginine prodn. by genetically engineered
                      Coryneform strains)
INDEX TERM:
                   74-79-3P, Arginine, preparation
                   ROLE: BMF (Bioindustrial manufacture); BPN (Biosynthetic
                   preparation); BIOL (Biological study); PREP (Preparation)
                      (enhanced L-arginine prodn. by genetically engineered
                      Coryneform strains)
                   50-99-7, Glucose, biological studies
INDEX TERM:
                   ROLE: BPR (Biological process); BIOL (Biological study);
                   PROC (Process)
                      (enhanced L-arginine prodn. by genetically engineered
                      Coryneform strains)
                                        372-75-8P, Citrulline
                   70-26-8P, Ornithine
INDEX TERM:
                   ROLE: BYP (Byproduct); PREP (Preparation)
                      (enhanced L-arginine prodn. by genetically engineered
                      Coryneform strains)
                   5
REFERENCE COUNT:
                   (1) Anon; DATABASE GENEBANK `Online 1997
REFERENCE(S):
                   (2) Kyowa Hakko Kogyo Kk; EP 0136359 A 1985 HCAPLUS
                   (3) Kyowa Hakko Kogyo Kk; EP 0259858 A 1988 HCAPLUS
                   (4) Kyowa Hakko Kogyo Kk; EP 0261627 A 1988 HCAPLUS
                   (5) Kyowa Hakko Kogyo Kk; EP 0332233 A 1989 HCAPLUS
     ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2001 ACS
                         2000:227797 HCAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                         132:275135
                         Process for constructing amino acid-producing
TITLE:
                         coryneform bacterium and process for producing amino
                         acid by fermentation method with the use of the thus
                         constructed amino acid-producing bacterium
                         Asakura, Yoko; Nakamura, Jun; Kanno, Sohei; Suga,
INVENTOR(S):
                         Mikiko; Kimura, Eiichiro; Ito, Hisao; Matsui,
                         Kazuhiko; Ohsumi, Tsuyoshi; Nakamatsu, Tsuyoshi;
                         Kurahashi, Osamu
                         Ajinomoto Co., inc., Japan
PATENT ASSIGNEE(S):
                         PCT Int. Appl., 98 pp.
SOURCE:
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         Japanese
INT. PATENT CLASSIF.:
            MAIN:
                         C12N015-67
                         C12N015-52; C12P013-04; C12P013-14; C12P019-38;
       SECONDARY:
                         C12N009-02; C12N009-10; C12N001-21
CLASSIFICATION:
                         3-1 (Biochemical Genetics)
                         Section cross-reference(s): 10, 16
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                         APPLICATION NO. DATE
     PATENT NO.
                    KIND DATE
                     A1 20000406
                                         WO 1999-JP5175 19990922
     WO 2000018935
         W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
             CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
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IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD,

(Biological study); OCCU (Occurrence); PROC (Process)

MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG AU 9957578 A1 20000417 AU 1999-57578 19990922 20000906 EP 1999-944770 19990922 EP 1033407 A1 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI BR 9909409 20001121 BR 1999-9409 19990922 Α PRIORITY APPLN. INFO.: JP 1998-271786 A 19980925 JP 1998-271787 Α 19980925 WO 1999-JP5175 W 19990922

ABSTRACT:

Described is a process for prepg. a coryneform bacterium mutant having an improved amino acid- or nucleic acid-productivity, by mutating or genetically recombinating the promoter sequence of an amino acid or nucleic acid biosynthesis gene on the chromosome of the coryneform bacterium so as to bring it close to the consensus sequence. The resultant mutants are then cultured for producing the amino acid or the nucleic acid at a high yield. By using this process, the expression of a target gene can be enhanced without using plasmid vectors. Demonstrated were the substitution mutation at CGGTCA, TTGTCA, TTGACA, or TTGCCA of the -35 region and/or at TATAAT or ATAAT of the -10 region of the glutamate dehydrogenase (GDH) gene gdh, selection of the coryneform bacterium mutant by using 4-fluoroglutamic acid, and use of the coryneform bacterium mutant for the prodn. oligonucleotide L-glutamic acid. Mutation of the promoter of (1) gene gltA for citrate synthase (CS); (2) gene icd for isocitrate dehydrogenase (ICDH); (3) gene pdhA for pyruvate dehydrogenase (PDH) subunit A; and (4) gene argG for argininosuccinate

SUPPL. TERM:

coryneform bacteria promoter mutation amino acid fermn; glutamate dehydrogenase gene promoter mutation; citrate synthase gene promoter mutation; isocitrate dehydrogenase gene promoter mutation; pyruvate dehydrogenase gene promoter mutation; argininosuccinate synthetase gene promoter mutation

INDEX TERM:

Coryneform bacteria

Fermentation

synthetase; resp., was also demonstrated.

(process for constructing amino acid-producing coryneform bacterium and process for producing amino acid by fermn. method with use of thus constructed amino acid-producing bacterium)

INDEX TERM:

Amino acids, preparation

Nucleic acids

ROLE: BPN (Biosynthetic preparation); BIOL (Biological

study); PREP (Preparation)

(process for constructing amino acid-producing coryneform bacterium and process for producing amino acid by fermn. method with use of thus constructed amino acid-producing bacterium)

INDEX TERM:

Promoter (genetic element)

ROLE: BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (process for constructing amino acid-producing coryneform bacterium and process for producing amino acid by fermn. method with use of thus constructed amino acid-producing

bacterium)

INDEX TERM:

263351-99-1 210245-73-1

ROLE: BPR (Biological process); BUU (Biological use, unclassified); BIOL (Biological study); PROC (Process); USES (Uses)

(-10 region of citrate synthase gene; process for

constructing amino acid-producing coryneform bacterium and process for producing amino acid by fermn. method with use of thus constructed amino acid-producing bacterium) 156766-03-9 INDEX TERM: 111283-40-0 ROLE: BPR (Biological process); BUU (Biological use, unclassified); BIOL (Biological study); PROC (Process); USES (-10 region of glutamate dehydrogenase gene; process for constructing amino acid-producing coryneform bacterium and process for producing amino acid by fermn. method with use of thus constructed amino acid-producing bacterium) 222160-22-7 INDEX TERM: ROLE: BPR (Biological process); BUU (Biological use, unclassified); BIOL (Biological study); PROC (Process); USES (Uses) (-35 region of argininosuccinate synthetase gene; process for constructing amino acid-producing coryneform bacterium and process for producing amino acid by fermn. method with use of thus constructed amino acid-producing bacterium) INDEX TERM: 263351-98-0 ROLE: BPR (Biological process); BUU (Biological use, unclassified); BIOL (Biological study); PROC (Process); USES (-35 region of citrate synthase gene; process for constructing amino acid-producing coryneform bacterium and process for producing amino acid by fermn. method with use of thus constructed amino acid-producing bacterium) 174228-92-3 222160-20-5 263351-96-8 87733-55-9 INDEX TERM: 263351-97-9 ROLE: BPR (Biological process); BUU (Biological use, unclassified); BIOL (Biological study); PROC (Process); USES (-35 region of glutamate dehydrogenase gene; process for constructing amino acid-producing coryneform bacterium and process for producing amino acid by fermn. method with use of thus constructed amino acid-producing bacterium) 9014-20-4, Pyruvate 9001-58-5, Isocitrate dehydrogenase INDEX TERM: 9023-58-9, Argininosuccinate synthetase dehydrogenase 9027-96-7, Citrate synthase 9029-11-2, Glutamate dehydrogenase ROLE: BSU (Biological study, unclassified); BIOL (Biological study) (mutation in promoter of gene for; process for constructing amino acid-producing coryneform bacterium and process for producing amino acid by fermn. method with use of thus constructed amino acid-producing bacterium) 56-86-0P, L-Glutamic acid, preparation 74-79-3P, Arginine, INDEX TERM: preparation ROLE: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation) (process for constructing amino acid-producing coryneform bacterium and process for producing amino acid by fermn. method with use of thus constructed amino acid-producing bacterium) 112824-74-5 125757-57-5 222160-17-0 222160-23-8 INDEX TERM: 248580-93-0 263352-00-7 263352-01-8 ROLE: BPR (Biological process); BUU (Biological use,

unclassified); BIOL (Biological study); PROC (Process); USES

Suga, Mikiko; Sugimoto, Masakazu; Osumi, INVENTOR(S):

Tsuyoshi; Nakamatsu, Tsuyoshi; Hibino, Wataru; Ito,

Mika

Ajinomoto Co., Inc., Japan PATENT ASSIGNEE(S): Eur. Pat. Appl., 27 pp.

SOURCE:

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

INT. PATENT CLASSIF.:

MAIN:

C12N015-53

SECONDARY: CLASSIFICATION:

C12N009-04; C12P013-06; C12R001-13; C12R001-15 16-2 (Fermentation and Bioindustrial Chemistry)

Section cross-reference(s): 3, 7

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

]	PAT	ENT	NO.		KI	ND.	DATE			ΑF	PLI	CATI	ON NO	Э.	DATE			
I	ΕP	9436	87		A.	2	1999	0922		ĒΕ	19	99-1	0032	4	1999	0112		
I	EΡ	9436	-			_	2000											
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙΤ,	LI,	LU,	NL,	SE,	MC,	PT,
			ΙE,	SI,	LT,	LV,	FI,	RO										
· ·	JΡ	1126	6881		A.	2	1999	1005		JE	19	98-3	5351	3	1998	1211		
Ţ	US	6258	573		B	1	2001	0710		US	19	98-2	2278	6	1998	1230		
PRIOR:	ITY	APP	LN.	INFO	. :				Ċ	JP 19	98-	3751		Α	1998	0112		
									i i	TP 10	98-	3535	1.3	Α	1998	1211		

ABSTRACT:

Disclosed is a coryneform bacterium having resistance to azaserine or .beta.-(2-thienyl)-DL-alanine and having L-serine productivity. Also, disclosed are D-3-phosphoglycerate dehydrogenase derived from Brevibacterium flavum strain AJ13327 after treatment with the mutagen MNNG, in which feedback inhibition by L-serine is desensitized. The D-3-phosphoglycerate dehydrogenase mutant has resistance to azaserine or .beta.-(2-thienyl)-DL-alanine and has L-serine productivity. The D-3-phosphoglycerate dehydrogenase amino acid sequence has the 325th glutamic acid residue replaced with an amino acid other than glutamic acid. Cultivating a coryneform bacterium harboring a recombinant DNA contg. the mutant serA gene in a medium to allow accumulation of L-serine in the medium yields 12 g serine/mL, markedly higher than the 5.0 g/mL produced by coryneform bacteria contg. the wild-type serA gene.

serine fermn Brevibacterium phosphoglycerate dehydrogenase SUPPL. TERM:

mutation; sequence phosphoglycerate dehydrogenase gene serA

mutation Brevibacterium

INDEX TERM: DNA sequences

(of 3-phosphoglycerate dehydrogenase mutant gene serA with reduced feedback inhibition in Brevibacterium

flavum)

Protein sequences INDEX TERM:

(of 3-phosphoglycerate dehydrogenase mutant with reduced

feedback inhibition in Brevibacterium flavum)

INDEX TERM: Corynebacterium glutamicum

Coryneform bacteria

Fermentation

Genetic engineering

(producing L-serine by fermn. with genetically engineered

corvnebacteria)

INDEX TERM: Gene, microbial

ROLE: BSU (Biological study, unclassified); PRP

(Properties); BIOL (Biological study)

(serA; producing L-serine by fermn. with genetically

engineered corynebacteria)

INDEX TERM: 233595-31-8

ROLE: BPR (Biological process); CAT (Catalyst use); PRP (Properties); BIOL (Biological study); PROC (Process); USES

```
(amino acid sequence; producing L-serine by fermn. with
                      genetically engineered corynebacteria)
                   233595-30-7
INDEX TERM:
                   ROLE: BSU (Biological study, unclassified); PRP
                   (Properties); BIOL (Biological study)
                      (nucleotide sequence; producing L-serine by fermn. with
                      genetically engineered corynebacteria)
                   56-45-1P, L-Serine, preparation
INDEX TERM:
                   ROLE: BMF (Bioindustrial manufacture); BIOL (Biological
                   study); PREP (Preparation)
                      (producing L-serine by fermn. with genetically engineered
                      corynebacteria)
INDEX TERM:
                   9075-29-0, 3-Phosphoglycerate dehydrogenase
                   ROLE: BPR (Biological process); CAT (Catalyst use); PRP
                   (Properties); BIOL (Biological study); PROC (Process); USES
                   (Uses)
                      (producing L-serine by fermn. with genetically engineered
                      corynebacteria)
                                         32595-59-8, .beta.-(2-Thienyl)-Serine
                   115-02-6, Azaserine
INDEX TERM:
                   ROLE: BAC (Biological activity or effector, except adverse);
                   BIOL (Biological study)
                      (resistance to; producing L-serine by fermn. with
                      genetically engineered corynebacteria)
INDEX TERM:
                   244180-32-3, PN: EP943687 SEQID: 1 unclaimed DNA
                   244180-54-9, PN: EP943687 SEQID: 3 unclaimed DNA
                   244180-57-2, PN: EP943687 SEQID: 4 unclaimed DNA
                   244180-59-4, PN: EP943687 SEQID: 5 unclaimed DNA
                   244180-61-8, PN: EP943687 SEQID: 6 unclaimed DNA
                   244180-62-9, PN: EP943687 SEQID: 7 unclaimed DNA
                   244180-63-0, PN: EP943687 SEQID: 8 unclaimed DNA
                   244180-64-1, PN: EP943687 SEQID: 9 unclaimed DNA
                   244180-66-3, PN: EP943687 SEQID: 10 unclaimed DNA
                   ROLE: PRP (Properties)
                      (unclaimed nucleotide sequence; producing L-serine by
                      fermn. with genetically engineered corynebacteria)
                   244180-33-4, PN: EP943687 SEQID: 2 unclaimed protein
INDEX TERM:
                   ROLE: PRP (Properties)
                      (unclaimed protein sequence; producing L-serine by fermn.
                      with genetically engineered corynebacteria)
    ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2001 ACS
                        1999:482064 HCAPLUS
ACCESSION NUMBER:
                         131:126393
DOCUMENT NUMBER:
                         Enhanced L-serine fermentation by genetically
TITLE:
                         engineered Coryneform bacteria
                         Suga, Mikiko; Sugimoto, Masakazu; Osumi,
INVENTOR(S):
                         Tsuyoshi; Nakamatsu, Tsuyoshi; Hibino, Wataru; Ito,
                         Mika
                         Ajinomoto Co., Inc., Japan
PATENT ASSIGNEE(S):
                         Eur. Pat. Appl., 33 pp.
SOURCE:
                         CODEN: EPXXDW
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         English
INT. PATENT CLASSIF.:
                         C12N015-53
           MAIN:
                         C12N009-04; C12P013-06; C12R001-15; C12R001-13
       SECONDARY:
                         3-2 (Biochemical Genetics)
CLASSIFICATION:
                         Section cross-reference(s): 7, 10, 16
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:
                                         APPLICATION NO. DATE
                 KIND DATE
     PATENT NO.
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(Uses)

	931833			A2 19990728 A3 20001213			EP 1999-100325						0112				
EP	931833		A3														
	R:							FR,	GB,	GR,	ΙT,	LI,	LU,	NL,	SE,	MC,	PT,
		ΙE,	SI,	LT,	LV,	FΙ,	RO										
JP	1125	3187		A:	2	1999	0921		J	P 19	98-3	5352	1	1998	1211		
US	6037	154		Α		2000	0314		U	S 19	98-2	2281	7	1998	1230		
CN	1227	264		Α		1999	0901		C	N 19	99-1	0044	1	1999	0112		
PRIORIT	Y APP	LN.	INFO	. :					JP 1	998-	3751		Α	19980	0112		
									JP 1	998-	3535	21	Α	1998	1211		

ABSTRACT:

The invention relates to a microorganism that converts a sugar into L-serine and to an industrially advantageous method of accumulating L-serine in a culture medium by utilizing the ability of the microorganism to convert the sugar into L-serine. Thus, the invention provides a Coryneform bacteria having L-serine productivity (a deficiency in L-serine decompg. activity, resistance to L-serine analogs, or a combination of both). Specifically, said bacterium has an enhanced activity of at least one of phosphoserine phosphatase and phosphoserine transaminase, and preferably further having introduced therein a gene coding for D-3-phosphoglycerate dehydrogenase in which feedback inhibition by L-serine is desensitized, thereby allowing L-serine to accumulate in the medium.

serine fermn genetic engineering Coryneform bacteria; SUPPL. TERM: phosphoserine phosphatase transaminase genetic engineering Coryneform bacteria; phosophoglycerate dehydrogenase gene genetic engineering Coryneform bacteria

Gene, microbial INDEX TERM:

ROLE: BUU (Biological use, unclassified); BIOL (Biological

study); USES (Uses)

(D-3-phosphoglycerate dehydrogenase; enhanced L-serine fermn. by genetically engineered Coryneform bacteria comprising a gene encoding D-3-phosphoglycerate

dehydrogenase)

Corynebacterium glutamicum INDEX TERM:

Coryneform bacteria

Fermentation

Genetic engineering

Microbacterium

(enhanced L-serine fermn. by genetically engineered

Coryneform bacteria)

INDEX TERM: 233595-31-8P

ROLE: BPN (Biosynthetic preparation); BIOL (Biological

study); PREP (Preparation)

(amino acid sequence; enhanced L-serine fermn. by

genetically engineered Coryneform bacteria)

56-45-1P, L-Serine, preparation INDEX TERM:

ROLE: BPN (Biosynthetic preparation); BIOL (Biological

study); PREP (Preparation)

(enhanced L-serine fermn. by genetically engineered

Coryneform bacteria)

9075-29-0P, D-3-Phosphoglycerate dehydrogenase INDEX TERM:

ROLE: BOC (Biological occurrence); BPN (Biosynthetic

preparation); CAT (Catalyst use); BIOL (Biological study);

OCCU (Occurrence); PREP (Preparation); USES (Uses)

(enhanced L-serine fermn. by genetically engineered

Coryneform bacteria comprising a gene encoding

D-3-phosphoglycerate dehydrogenase)

9030-90-4P, 9025-73-4P, Phosphoserine phosphatase INDEX TERM:

Aminotransferase, phosphoserine

ROLE: BOC (Biological occurrence); BPN (Biosynthetic preparation); CAT (Catalyst use); BIOL (Biological study);

OCCU (Occurrence); PREP (Preparation); USES (Uses) (enhanced activity of; enhanced L-serine fermn. by

genetically engineered Coryneform bacteria)

INDEX TERM:

233595-30-7P

ROLE: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
 (nucleotide sequence; enhanced L-serine fermn. by genetically engineered Coryneform bacteria)



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Dossier: 09835381

Legal Date: 08-22-2001

No.	Doccode	Number of pages
1	CRFL	6
2	SRNT	26

2	SRNT	26
Total	number of pages: 32	

Total number of pages: 32

Remarks:

Order of re-scan issued on